L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 1192-71-8 REGISTRY

ED Entered STN: 16 Nov 1984

CN 2,5-Furandione, 3-chlorodihydro- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Succinic anhydride, chloro- (7CI, 8CI)

OTHER NAMES:

CN α-Chlorosuccinic anhydride

CN Chlorosuccinic anhydride

FS 3D CONCORD

DR 7414-69-9

MF C4 H3 C1 O3

LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASREACT, TOXCENTER, USPATFULL (\*File contains numerically searchable property data)

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- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 12 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	13.74	21.32
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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This file contains CAS Registry Numbers for easy and accurate substance identification.
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=> s 1192-71-8/proc 12 1192-71-8 3712900 PROC/RL

L6 0 1192-71-8/PROC

(1192-71-8 (L) PROC/RL)

=> s 1192-71-8/prep

12 1192-71-8

3329153 PREP/RL

L7 3 1192-71-8/PREP

(1192-71-8 (L) PREP/RL)

=> s 1192-71-8/pur

12 1192-71-8

214772 PUR/RL

L8 0 1192-71-8/PUR

(1192-71-8 (L) PUR/RL)

=> s 17 and aspartic acid

64753 ASPARTIC

4002720 ACID

55860 ASPARTIC ACID

(ASPARTIC(W)ACID)

L9 0 L7 AND ASPARTIC ACID

=> s 17 1-3 ibib abs hitstr

MISSING OPERATOR L7 1-3

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> d 17 1-3 ibib abs hitstr

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1986:590736 CAPLUS

DOCUMENT NUMBER:

105:190736

TITLE:

Total synthesis of antitumor agent AT-125,

 $(\alpha S, 5S)$  - $\alpha$ -amino-3-chloro-4, 5-dihydro-5-

isoxazoleacetic acid

AUTHOR(S):

Baldwin, Jack E.; Cha, Jin K.; Kruse, Lawrence I.

CORPORATE SOURCE:

Dyson Perrins Lab., Oxford, OX1 3QY, UK

SOURCE: Tetrahedron (1985), 41(22), 5241-60 CODEN: TETRAB; ISSN: 0040-4020

DOCUMENT TYPE:

Journal

LANGUAGE:
OTHER SOURCE(S):

English .

GI

CASREACT 105:190736

C1 N CH (NH<sub>2</sub>) CO<sub>2</sub>H

AB A short and efficient total synthesis of racemic AT-125 (erythro-I) and racemic threo-I proceeds via an intramol. Michael cyclization of HONRCOCH2CH:C(CO2R1)NHCO2CH2Ph (R = 4-MeOC6H4CH2, R1 = CH2Ph; R = R2 = H). Separation of diastereomers and deprotection to erythro-I followed by enzymic

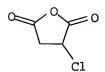
resolution of the N-chloroacetamide with hog-kidney acylase provides  $(\alpha S, 5S) - I$ .

ΙT 1192-71-8P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and esterification of)

RN 1192-71-8 CAPLUS

CN 2,5-Furandione, 3-chlorodihydro- (9CI) (CA INDEX NAME)



ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:557799 CAPLUS

DOCUMENT NUMBER: 99:157799.

TITLE: Preparation of monomethyl fumarate

AUTHOR (S): Dymicky, Michael

CORPORATE SOURCE: East. Reg. Res. Cent., Agric. Res. Serv.,

Philadelphia, PA, 19118, USA

SOURCE: Organic Preparations and Procedures International

(1983), 15(4), 233-8 CODEN: OPPIAK; ISSN: 0030-4948

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 99:157799

Monomethyl maleate (I), which was prepared, was catalytically isomerized to monomethyl fumarate (II); HCl, AlCl3, and acyl chlorides were used as catalysts. Thus, fumaric acid reacted with ClCOCOCl to give maleic anhydride and chlorosuccinic anhydride, and the maleic anhydride was treated with MeOH to yield I. Mixts. of I and a catalyst were heated to 80-5° to give .apprx.82-5% II.

1192-71-8P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 1192-71-8 CAPLUS

2,5-Furandione, 3-chlorodihydro- (9CI) (CA INDEX NAME)

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:462087 CAPLUS

DOCUMENT NUMBER: 77:62087

TITLE: Reaction of phosphorus(III) acid chlorides with

conjugated heteroatomic systems

AUTHOR (S): Pudovik, A. N.; Khairullin, V. K.; Shagidullin, R. P.;

Sobchuk, T. I.; Eliseenkov, V. N.; Vasyanina, M. A.

CORPORATE SOURCE: Inst. Org. Fiz. Khim. im. Arbuzova, Kazan, USSR

SOURCE: Khim. Primen. Fosfororg. Soedin., Tr. Vses. Konf., 3rd

(1972), Meeting Date 1965, 220-30. Editor(s):

Kabachnik, M. I. "Nauka": Moscow, USSR.

CODEN: 25HKAU

DOCUMENT TYPE:

Conference

LANGUAGE:

Russian

AB Heating RPCl2 (R = Et, p-MeC6H4) with R1CH:CHCO2H (R1 = H, Me) gave the corresponding RP(O) ClCHRCH2COCl in 37.0-80.5% yield; CH2:-CMeCO2H (I), HC.tplbond.CCO2H, and MeO2CCH2CO2H reacted analogously, and I also gave the corresponding cyclic anhydride. Similarly, RPClOR2 [II, R = Ph, p-MeC6H4; R2 = 1-trichloromethyl-1-cyclopentyl, CMe2CCl3, CH(CH2Cl)2] and CH2:CR1CO2H (R1 = H, Me) yielded the corresponding R2OP(O)RCH2CHR1COCl, and II (R2 = CH2CH2Cl, Et) afforded the cyclic anhydrides. These products underwent reactions characteristic of their functional groups.

IT 1192-71-8P

RN 1192-71-8 CAPLUS

CN 2,5-Furandione, 3-chlorodihydro- (9CI) (CA INDEX NAME)

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